Attachment 11	: Anticipated	Residue
Determination for A	Acute Dietary	Assessment

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)	
		ROOT and TUBER VEGETABLES				
Carrots (Parent only)	PDP -Parent	The composite PDP data is directly input incorporating %CT.	1%	RDF 9	Adjustment Factor1	
Canned Carrots	Fresh Carrot PDP Data	Canned carrots uses an average of composite PDP data incorporating %CT.	1 70	0.00016	Adjustment Factor ¹	
Potatoes	PDP -Parent	No detectable residues found in PDP data. ½ LOD is		RDF 27		
(Parent Only)	* FDA - Parent	used for all non-detects incorporating %CT.	904	KDF 21		
Canned and Dried Potatoes	Fresh Potato	Average of composite PDP data is used with no further	2%	Canned: 0.000042	Adjustment Factor ¹	
Dileu Folatoes	PDP Data	adjustment for %CT.		Dried: 0.0021		
Sweet Potatoes	PDP -Parent	The composite PDP data is directly input incorporating	21%	RDF 30		
(Parent Only)	* FDA - Parent	%CT.		21%	KDF 30	Adjustment Factor ¹
Canned Sweet Potatoes	Fresh Sweet Potato PDP Data	Canned sweet potatoes uses an average of composite PDP data incorporating %CT.		0.00037	,	
Sugar Beets (Parent + Metabolite)	Field Trial Data	No detectable residues found in field trial data. LOD is used incorporating %CT.	1%	0.000167	Adjustment Factor ¹	
Turnips (Parent + Metabolite)	Translated from Carrots	The composite carrot PDP data is directly input incorporating turnip %CT.	1%	RDF 33	Adjustment Factor ¹	
Turnip Greens (Parent + Metabolite)	Field Trial Data	Turnip FT data is used incorporating %CT.	7%	RDF 32	Adjustment Factor ¹	
Canned Turnip Greens	Fresh Turnip Green FT Data	Average of field trial data is used incorporating %CT.		0.000467		

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)	
		BULB VEGETABLES				
Bulb Onions (Parent + Metabolite)	FDA -Parent + Metabolite	No detectable residues found in FDA data. ½ LOD is used for all non-detects incorporating %CT.	9%	RDF 6	Adjustment Factor ¹	
Canned Onion	Fresh Bulb Onion FDA Data	Average of composite bulb onion FDA data is used incorporating %CT.		0.00033		
Green onions (Parent + Metabolite)	Field Trial Data	Green onion FT data is used incorporating %CT.	9%	RDF 7	Adjustment Factor ¹	
	LEAFY VEGETABLES (EXCEPT BRASSICA)					
Celery	PDP -Parent	The composite PDP data is directly input incorporating				
(Parent + Metabolite)	* FDA - Parent + Metabolite	%CT.	1%	RDF 11	Adjustment Factor ¹	
Canned Celery and Celery Juice	Fresh Celery PDP data	Average of composite celery PDP data is used incorporating %CT.1%		0.00009		
Lettuce	PDP -Parent	No detectable residues found in PDP data. ½ LOD is				
(Parent + Metabolite)	* FDA - Parent + Metabolite	used for all non-detects incorporating %CT.	1%	RDF 23	Adjustment Factor ¹	
Canned Lettuce	Fresh Lettuce PDP Data	Average of composite lettuce PDP data is used incorporating %CT.		0.00005		
Spinach	PDP -Parent	The composite PDP data is directly input incorporating				
(Parent + Metabolite)	* FDA - Parent + Metabolite	%CT.	5%	RDF 28	Adjustment Factor ¹	
Canned Spinach	PDP -Parent canned	The composite PDP data is directly input incorporating %CT.		RDF 29		

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)	
		BRASSICA (COLE) LEAFY VEGETABLES	3			
Broccoli (Parent	PDP -Parent	No detectable residues found in PDP data. LOD is				
+ Metabolite)	* FDA - Parent + Metabolite	used for all non-detects incorporating %CT.	1%	RDF 4	Adjustment Factor ¹	
Canned Broccoli	Fresh Broccoli PDP Data	Average of composite broccoli fresh PDP data is used incorporating %CT.		0.000049		
Brussels Sprouts (Parent +	Translated from Spinach	The composite spinach PDP data is directly input	1%	RDF 5	Adjustment Factor ¹	
Metabolite)	* FDA - Parent + Metabolite	incorporating brussels sprouts %CT.	1 70	KDF 3	Adjustifierit Factor	
Cabbage (Parent	Translated from Spinach	The composite spinach PDP data is directly input	4%		RDF 8	
+ Metabolite)	* FDA - Parent + Metabolite	incorporating cabbage %CT.		NDI 0	Adjustment Factor ¹	
Canned Cabbage	Translated from Spinach	Average of composite spinach PDP data is used incorporating cabbage %CT.		0.00032		
Cauliflower (Parent + Metabolite)	Translated from Broccoli	No detectable residues found on broccoli. LOD is used for all non-detects incorporating cauliflower %CT.	1%	RDF 10	Adjustment Factor ¹	
Collards (Parent + Metabolite)	Translated from Spinach	The composite spinach PDP data is directly input incorporating collard %CT.	2%	RDF 13	Adjustment Factor ¹	
Canned Collards	Translated from Spinach	Average of composite spinach PDP data is used incorporating collard %CT.		0.00024	Aujustinetit Factor	
Kale (Parent + Metabolite)	Translated from Spinach	The composite spinach PDP data is directly input incorporating kale %CT.	2%	RDF 22	Adjustment Factor ¹	
Canned Kale	Translated from Spinach	Average of composite spinach PDP data is used incorporating kale %CT.		0.00016		
Mustard Greens (Parent + Metabolite)	Translated from Spinach	The composite spinach PDP data is directly input incorporating mustard green %CT.	2%	RDF 24	Adjustment Factor ¹	

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)
		LEGUME VEGETABLES			
Dried Beans (Parent + Metabolite)	FDA - Parent + Metabolite	No detectable residues found in FDA data. ½ LOD is used incorporating %CT.	3%	0.0033	Adjustment Factor ¹
Succulent Beans	PDP -Parent	The composite green bean PDP data is directly input			
(Parent + Metabolite)	* FDA -Parent + Metabolite	incorporating succulent bean %CT.		RDF 18	
Frozen Succulent Beans	PDP -Parent frozen only	The composite frozen green bean PDP data is directly input incorporating succulent bean %CT.	4%	RDF 19	Adjustment Factor ¹
Canned Succulent Beans	Fresh Green Bean PDP Data	Average of composite green bean PDP data is used incorporating succulent bean %CT.		0.00026	
Dried Lima Beans (Parent + Metabolite)	Translated from Dried Beans	No detectable residues found in dried bean FDA data. ½ LOD is used incorporating %CT.	3%	0.0033	Adjustment Factor ¹
Succulent Lima Beans (Parent + Metabolite)	Translated from Succulent Beans	The composite green bean PDP data is directly input incorporating succulent bean %CT.		RDF 18	
Frozen Succulent Lima Beans	Translated From Frozen Succulent Beans	The composite frozen green bean PDP data is directly input incorporating succulent lima bean %CT.	4%	RDF 19	Adjustment Factor ¹
Canned Succulent Lima Beans	Translated from Succulent Beans	Average of composite green bean PDP data is used incorporating succulent bean %CT.		0.00026	
Lentils (Parent + Metabolite)	Translated from Soybean	No detectable residues found on soybeans. LOD is used with no further adjustment for %CT.	1%	0.0036	Adjustment Factor ¹
Dried Peas (Parent + Metabolite)	FDA - Parent + Metabolite	Average of composite dried bean FDA data is used with no further adjustment for %CT.	3%	0.006	Adjustment Factor ¹

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)
Succulent Peas	PDP -Parent	The composite PDP data is directly input incorporating			
(Parent + Metabolite)	* FDA -Parent + Metabolite	%CT.	4%	RDF 26	Adjustment Factor ¹
Canned Succulent Peas	PDP -Parent frozen/can	The composite frozen/canned peas PDP data is directly input incorporating %CT.		0.00020	
Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)
Soybean Grain	PDP -Parent	No detectable residues found. ½ LOD is used for all			Soybean Meal ² :
(Parent)	* FDA - Parent + Metabolite	non-detects with no further adjustment for %CT.	1%	0.0018	0.3x Refined Soybean Oil ² : 3x
FRUITING VEGETABLES					
Tomatoes	PDP -Parent	The composite PDP data is directly input incorporating	1%	DDE 04	Adjustment Factor ¹
(Parent + Metabolite)	* FDA - Parent + Metabolite	%CT.		RDF 31	Juice ² : 0.06x Puree ² : 0.12x
Canned and Processed Tomatoes	Fresh Tomato PDP Data	Average of composite PDP data is used incorporating %CT.		0.000062	Catsup ² : 0.06x Paste ² : 0.12x
		POME FRUITS			
Apples (Parent + Metabolite)	Translated from Single Serving Pear PDP Data	The single serving pear PDP data is directly input incorporating apple %CT.		RDF 35	Adjustment Factor ¹
Canned Apples	Composite Apple PDP Data	Average of composite fresh apple PDP data is used incorporating %CT.	25%	0.00171	
Apple Juice (Parent + Metabolite)	PDP- Parent	The composite PDP data is input directly with no further adjustment for %CT.		RDF 2	Adjustment Factor ¹ Juice ³ : 1x Conc. ³ : 3x

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)		
	PDP -Parent Single Serving						
Pear(Parent + Metabolite)	*PDP-Parent Composite	The single serving PDP data is input directly incorporating %CT.		RDF 1	Adjustment Factor ¹		
	*FDA-Parent + Metabolite		14%		Adjustment Factor ¹		
Canned Pear	Composite Pear PDP Data	Average of composite fresh pear PDP data is used incorporating %CT.		0.00139			
Pear Juice	Translated from	The composite apple juice PDP data is directly input		DDE 0	Adjustment Factor ¹		
(Parent + Metabolite)	Apple Juice Data	incorporating pear %CT.		RDF 2	Juice ³ : 1x Conc. ³ : 3x		
	STONE FRUITS						
Cherries (Parent +	FDA - Parent + Metabolite	The composite FDA data is directly input incorporating	11%	RDF 12	Adjustment Factor ¹		
Metabolite)	* Field Trial Data	%CT.					
Canned Cherries and Cherry Juice	Fresh Cherry FDA Data	Average of composite fresh cherry FDA data is used incorporating %CT.	11%	0.00287	Adjustment Factor ¹		
Nectarines (Parent + Metabolite)	Translated from Fresh Peaches	The composite fresh peach PDP data is decomposited incorporating nectarine %CT.	18%	RDF 25	Default Concentration Factor		
Peaches	PDP -Parent	The composite PDP data is decomposited incorporating					
(Parent + Metabolite)	* FDA - Parent + Metabolite	%CT.		RDF 14			
Peach Juice	Fresh Peach PDP Data	Average of composite peach PDP data is used incorporating %CT.	39%	0.01703	Adjustment Factor ¹		
Canned Peaches	PDP -Parent	No detectable residues found. LOD is used for all non-		RDF 15			
	canned	detects incorporating %CT.		0.00234			
Plums (Parent + Metabolite)	FDA - Parent + Metabolite	No detectable residues found. LOD is used for all non- detects incorporating %CT.	31%	RDF 20	Adjustment Factor ¹		

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)		
Canned Plums and Prune Juice	Fresh Plum FDA Data	No detectable residues found. LOD is used incorporating %CT.		0.00102			
TREE NUTS							
Almonds (Parent + Metabolite)	Field Trial Data	Almond FT data is used incorporating %CT.	2%	RDF 36	Adjustment Factor ¹		
Pecans (Parent)	Field Trial Data	No detectable residues found in Pecan FT data. ½ LOD is used incorporating %CT.	2%	RDF 37	Adjustment Factor ¹		
Walnuts (Parent)	Field Trial Data	No detectable residues found in walnut FT data. ½ LOD is used incorporating %CT.	12%	RDF 38	Adjustment Factor ¹		
		CEREAL GRAINS					
Barley (Parent + Metabolite)	Translated from Wheat	Average of composite wheat PDP data is used with no further adjustment for %CT.	1%	0.00722	Adjustment Factor ¹		
Sweet Corn	PDP -Parent frozen/can	No detectable residues found. ½ LOD is used for all non-detects incorporating %CT.	7%	RDF17	- Adjustment Factor ¹		
(Parent Only)	FDA-Parent fresh	No detectable residues found. ½ LOD is used for all non-detects incorporating %CT.	1 /0	RDF 16			
Oats (Parent + Metabolite)	Translated from Wheat	Average of composite wheat PDP data is used with no further adjustment for %CT.	1%	0.00722	Adjustment Factor ¹		
Polished Milled and Brown Rice	FDA - Parent + Metabolite	Average of composite FDA data is used incorporating	12%	0.00430	Adjustment Factor ¹		
(Parent + Metabolite)	* Field Trial Data	LOD for all non-detects with no further adjustment for %CT.	1270	0.00430	Polished Milled Rice ⁴ : 0.04x Brown Rice ⁴ : 0.18x		
Rye (Parent + Metabolite)	Translated from Wheat	Average of composite wheat PDP data is used incorporating LOD with no further adjustment for %CT.	1%	0.00722	Adjustment Factor ¹ Germ ² : 2x		
Wheat (Parent +	PDP -Parent	Average of composite PDP data is used incorporating LOD for all non-detects with no further adjustment for	2%	2% 0.00722	Adjustment Factor ¹		
Metabolite)	* FDA - Parent + Metabolite	%CT.	<i>2 /</i> 0	0.00122	Germ ² : 2x Flour ² : 0.4x		
		MISCELLANEOUS CROPS					

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)
Artichokes (Parent + Metabolite)	Field Trial Data	Artichoke FT data is used incorporating %CT.	1%	RDF3	Adjustment Factor ¹
Cottonseed Meal (Parent + Metabolite)	Field Trial Data	Average FT data is used, 3.0ppm for TX and 1.15ppm for US, incorporating the TX %CT, US %CT, and portions of the crop grown in each area.	TX 6% US 17%	0.25	Adjustment Factor ¹
Cottonseed Oil (Parent)	FDA - Parent	No detectable residues found. ½ LOD is used for all non-detects with no further adjustment for %CT. (Note: Only 2 samples were found for seed oil, but 39 samples were found for seed.)	17%	0.02	Seed Meal ⁵ : 0.09x Seed Oil: 1x
Grapes (Parent +	PDP - Parent	Composite PDP data is input directly incorporating			
Metabolite)	* FDA - Parent + Metabolite	%CT.		RDF 21	Adjustment Factor ¹
Canned Grapes, Grape Wine and Sherry	Fresh Grape PDP Data	Average of composite grape PDP data is used incorporating %CT.	2%	0.00165	Juice ³ : 1x Conc. ³ : 3x
Grape Juice	Grape Juice FDA Data	No detectable residues found. ½ LOD is used for all non-detects with no further adjustment for %CT.		RDF 34	
Hops (Parent + Metabolite)	Field Trial Data	Average of FT data is used incorporating %CT.	1%	0.00968	Adjustment Factor ¹
Rapeseed (Canola) (Parent + Metabolite)	Field Trial Data	Average of FT data is used incorporating %CT.	5%	0.00271	Adjustment Factor ¹ Canola Oil ⁶ : 2x

Crop	Source of Data	Residue Data Used	% Crop Treated	Acute Residue (ppm)	Adjustment Factor (ppm)
Peanuts (Parent + Metabolite)	Field Trial Data	Average of FT data is used incorporating %CT.	1%	0.00017	Adjustment Factor ¹ Peanut Oil ⁷ : 1x PeanutButter ⁷ : 1x
Sunflowers (Parent + Metabolite)	Field Trial Data	Average of FT data is used incorporating %CT.	1%	0.00017	Default Adjustment Factor

An asterisk (*) signifies supporting data only. These supporting data are not used for the calculation of anticipated residues in this assessment.

The FDA monitoring data used for cottonseed oil was not standard policy due to the limited number of samples.

The application rate for wheat will be increased requiring a raise in tolerance to 5ppm; therefore, the anticipated residue used in this assessment for wheat may underestimate the risk.

- 1. All commodities containing boiled, canned, or cooked (NFS) food forms incorporate an adjustment factor of 0.05x for those food forms. Snap Beans Canning Study MRID No.: 44812901.
- 2. Residue Chemistry Chapter for the Methyl Parathion Reregistration Eligibility Decision (RED) Document. Bonnie Cropp-Kohlligian. 11/June/98.
- 3. The default processing factors are adjusted to incorporate the actual juice data, maintaining the default juice/juice concentrate ratio.
- 4. Rice Processing Study MRID No.: 41596205.
- 5. Cottonseed Processing Study MRID No.: 41596201. The anticipated residue for cottonseed are adjusted for the proposed SLN's in Texas.
- 6. Rapeseed (Canola) Processing Study MRID No.: 42717601 and 42717602.
- 7. Peanut Processing Study MRID No.: 42606003.